



White Bear
Work Wear



2023

PRODUCT CATALOGUE



WESTEX[®]
by Milliken

3M

Scotchlite[™]
Reflective Material

FireZero[®]

P R E M I U M



W O R K W E A R

N I S K U

White Bear

A L B E R T A

SAFETY FIRST



We'll
COVERALL
Your Needs

CUSTOM PROJECTS

We are pleased to be able to assist you with any custom project you may require. No minimums required. Alterations on existing designs, full custom programs, and tailored builds for those hard to fit individuals. Access to many fabrics, FR, cotton, polycotton and more. Please call or email for more info.

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STYLE: FIREZERO7S / FIREZERO9S

Label size		34	36	38	40	42	44	46	48	50	52	Tolerance Allowance
Chest Finished		44	45	46	47	48	49	50	51	53	55	±3/4
Waist Finished	FLAT	39	40	41	42	43	44	45	46	48	50	
	STR	42	43	44	45	46	47	48	49	51	53	
Seat Finished		43 1/2	44 1/2	45 1/2	46 1/2	47 1/2	48 1/2	49 1/2	50 1/2	52 1/2	54 1/2	±3/4
Shoulder Width Finished		17 3/4	18 1/4	18 3/4	19 1/4	19 3/4	20 1/4	20 3/4	21 1/4	22 1/4	23 1/4	±1/2
Waist Length Finished From Neck	REG	19 1/4	19 5/8	20	20 1/4	20 1/2	21	21 1/4	21 1/2	21 3/4	22 1/8	
	TALL	19 3/4	20 1/8	20 1/2	20 3/4	21	21 1/2	21 3/4	22	22 1/4	22 5/8	
Out Sleeve Length Over Shoulder Finished	REG	30	31	32	33	33 1/2	34	34 1/2	35 1/2	36	36 1/2	
	TALL	32	33	34	35	35 1/2	36	36 1/2	37 1/2	38	38 1/2	
Thigh Finished		28 1/2	29	29 1/2	30	30 1/2	31	31 1/2	32	33 1/8	34 1/8	±3/4
Leg Inseam Finished	REG	30	30	30	30	30	30	30	30	30	30	
	TALL	33	33	33	33	33	33	33	33	33	33	
Front Crotch Length Finished	REG	32 5/8	33 3/8	33 3/4	34 3/8	35	35 1/2	36	36 3/8	37	37 3/4	
	TALL	33 5/8	34 3/8	34 3/4	35 3/8	36	36 1/2	37	37 3/8	38	38 3/4	
Back Crotch Length Finished	REG	36 3/8	37 1/8	37 5/8	38 3/8	38 3/4	39 3/8	40	40 1/4	41	41 5/8	
	TALL	37 3/8	38 1/8	38 5/8	39 3/8	39 3/4	40 3/8	41	41 1/4	42	42 5/8	
Bottom Finished		16	17	18	19	19	20	20	21	21	21	±1/2
In Sleeve Length Over Shoulder Finished	REG	18 1/2	19	19 1/2	20	20	20	20	20 1/2	20 1/2	20 1/2	
	TALL	20 1/2	21	21 1/2	22	22	22	22	22 1/2	22 1/2	22 1/2	
Front Zipper	REG	16	17	17	18	19	19	19	19	20	21	
	TALL	17	18	18	19	20	20	20	20	21	22	
Label size		54	56	58	60	62	64	66	68	70	72	Tolerance Allowance
Chest Finished		57	59	61	63	65	67	69	71	73	75	±3/4
Waist Finished	FLAT	52	54	56	58	60	62	64	66	68	70	
	STR	55	57	59	61	63	65	67	69	71	73	
Seat Finished		56 1/2	58 1/2	60 1/2	62 1/2	64 1/2	66 1/2	68 1/2	70 1/2	72 1/2	74 1/2	±3/4
Shoulder Width Finished		24 1/4	25 1/4	26 1/4	27 1/4	28 1/4	29 1/4	30 1/4	31 1/4	32 1/4	33 1/4	±1/2
Waist Length Finished From Neck	REG	22 1/2	22 3/4	23 1/8	23 1/2	23 3/4	24 1/8	24 1/2	24 3/4	25	25 1/2	
	TALL	23	23 1/4	23 5/8	24	24 1/4	24 5/8	25	25 1/4	25 1/2	26	
Out Sleeve Length Over Shoulder Finished	REG	37	37 1/2	38	39	40	40 1/2	41	41 1/2	42	42 1/2	
	TALL	39	39 1/2	40	41	42	42 1/2	43	43 1/2	44	44 1/2	
Thigh Finished		35 1/4	36 1/4	37 3/8	38 3/8	39 3/8	40 3/8	41 3/8	42 3/8	43 3/8	44 3/8	±3/4
Leg Inseam Finished	REG	30	30	30	30	30	30	30	30	30	30	
	TALL	33	33	33	33	33	33	33	33	33	33	
Front Crotch Length Finished	REG	38	38 1/2	39	39 3/4	40 1/2	40 7/8	41 1/2	42	42 1/2	43	
	TALL	39	39 1/2	40	40 3/4	41 1/2	41 7/8	42 1/2	43	43 1/2	44	
Back Crotch Length Finished	REG	42	42 1/2	43 1/4	43 7/8	44 1/2	45 3/8	45 7/8	46 1/2	47 3/8	47 7/8	
	TALL	43	43 1/2	44 1/4	44 7/8	45 1/2	46 3/8	46 7/8	47 1/2	48 3/8	48 7/8	
Bottom Finished		22	22	22	22	22	23	23	24	24	24	±1/2
In Sleeve Length Over Shoulder Finished	REG	20 1/2	20 1/2	20 1/2	21	21 1/2	21 1/2	21 1/2	21 1/2	21 1/2	21 1/2	
	TALL	22 1/2	22 1/2	22 1/2	23	23 1/2	23 1/2	23 1/2	23 1/2	23 1/2	23 1/2	
Front Zipper	REG	21	22	22	23	23	24	24	25	25	26	
	TALL	22	23	23	24	24	25	25	26	26	27	



STYLE: IU7S / IU9S & FR IIIA

SIZE	36	38	40	42	44	46	48	50
Chest finished	23	24	25	26	27	28	29	30
Front crotch length fin.	33.375	33.5	33.625	33.75	33.875	34	34.125	34.25
Back crotch length fin.	38.25	38.5	38.75	39	39.25	39.5	39.75	40
Knee finished (line 12 inches from crotch)	17.75	19	20.25	21.5	22.75	24	25.25	26.5
Leg inseam finished	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
Out sleeve over shoulder finished	32.25	33	33.75	34.5	35.25	36	36.75	37.5
Shoulder width finished	17	18	19	20	21	22	23	24
Waist finished (flat)	30	32	34	36	38	40	42	44
Waist finished (stretch)	38	40	42	44	46	48	50	52
Bottom finished	17	18	19	20	21	22	23	24

SIZE	52	54	56	58	60	62	64	66	68
Chest finished	31	32	33	34	35	36	37	38	39
Front crotch length fin.	34.375	34.5	34.625	34.75	34.875	35	35.125	35.25	35.375
Back crotch length fin.	40.25	40.5	40.75	41	41.25	41.5	41.75	42	42.25
Knee finished (line 12 inches from crotch)	27.75	29	30.25	31.5	32.75	34	35.25	36.5	37.75
Leg inseam finished	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
Out sleeve over shoulder finished	38.25	39	39.75	40.5	41.25	42	42.75	43.5	44.25
Shoulder width finished	25	26	27	28	29	30	31	32	33
Waist finished (flat)	46	48	50	52	54	56	58	60	62
Waist finished (stretch)	54	56	58	60	62	64	66	68	70
Bottom finished	25	26	27	28	29	30	31	32	33

QUICK REFERENCE SIZING CHART

SIZE	SMALL	MEDIUM	LARGE	X-LARGE	2X-LARGE	3X-LARGE	4X-LARGE	5X-LARGE (summer only)
	36/38	40/42	44/46	48/50	52/54	56/58	60/62	64

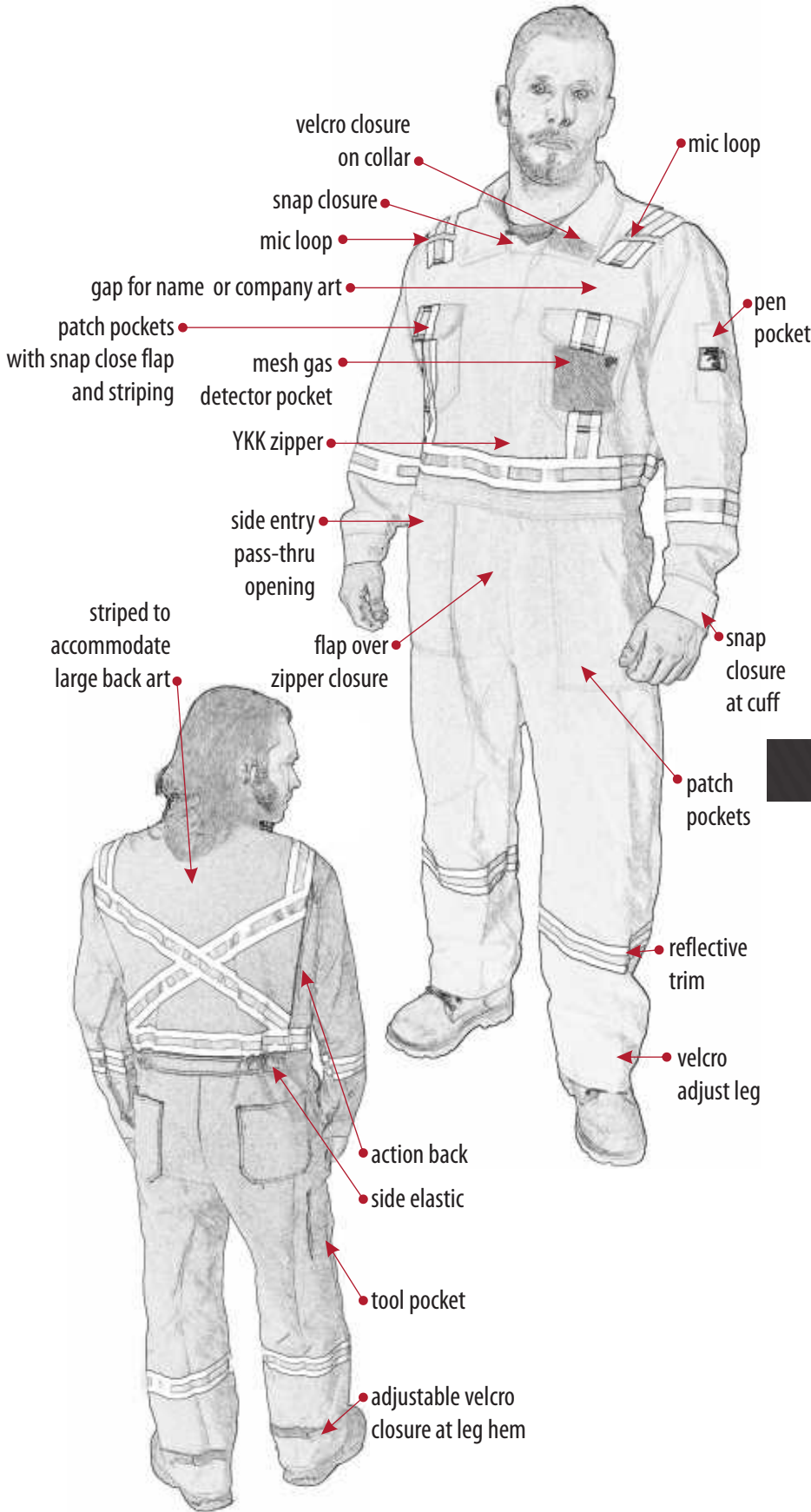
*White Bear Work Wear also offers all these products in tall.

UNLINED COVERALLS - CXP FR IIIA (6.5oz) by MILLIKEN

 Westex
CXP®





UNLINED COVERALLS - CXP FR IIIA (6.5oz) by MILLIKEN




- ATPV 6.0 cal/cm² and HRC 1
- Stock sizes 34 through 68 in Regular and Tall
- 2 chest pockets with flaps and a built in mesh for gas detector use, pencil pocket on sleeve, 2 side hip pockets with pass through, 2 rear patch pockets and a tool pocket on leg
- Action back and elastic waist inserts for improved comfort
- Embroidery gap above both pockets, drop striping on back to accommodate large back art
- All materials comply to standards: CGSB 155.20, NFPA 2112, NFPA 1977, CGSB 155.22, NFPA 1975, ASTM F1506 (NFPA 70E/CSA Z462)
- CXP FR IIA uses VISA stain release technology for better wash performance, a deep dye process to resist fading and soft hand for comfort and wearability
- Custom design and colours available, contact for more details (minimums apply)
- Mic straps on front shoulders, left and right
- Velcro adjustable legs

STOCK SIZES

NOM6RED-REG	34-48	RED 
NOM6RED-TALL	36T-48T	
NOM6RED-REG	50-56	
NOM6RED-TALL	50T-56T	
NOM6RED-REG	58-62	
NOM6RED-TALL	58T-68T	

NOM6RB	34-48	ROYAL BLUE 
NOM6RB-TALL	36T-48T	
NOM6RB	50-56	
NOM6RB-TALL	50T-56T	
NOM6RB	58-62	
NOM6RB-TALL	58T-68T	

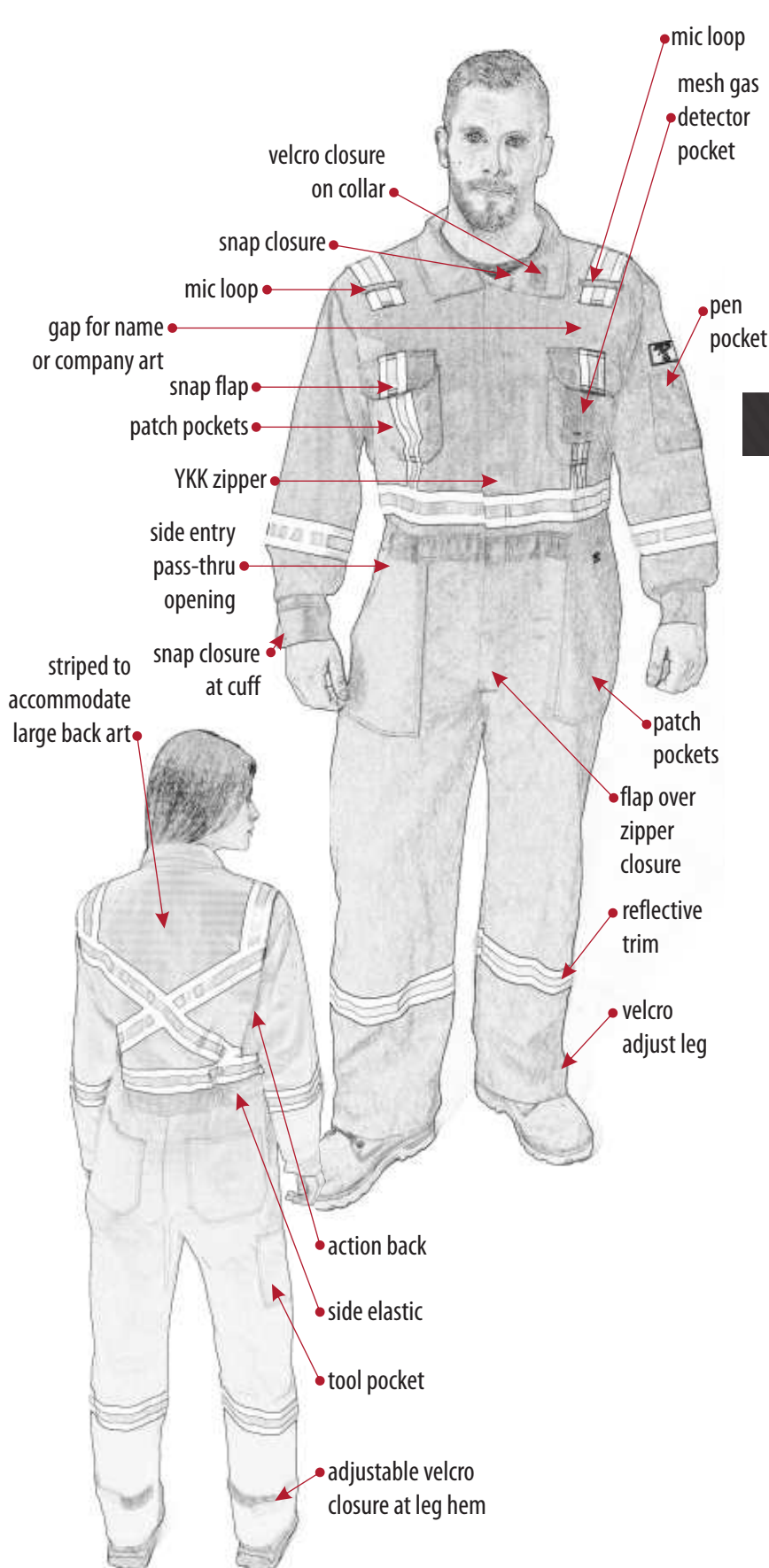
NOM6GRY	34-48	GREY 
NOM6GRY-TALL	36T-48T	
NOM6GRY	50-56	
NOM6GRY-TALL	50T-56T	
NOM6GRY	58-62	
NOM6GRY-TALL	58T-68T	

UNLINED COVERALLS - ULTRASOFT (7oz) by WESTEX

Westex
UltraSoft®



UNLINED COVERALLS - ULTRASOFT (7oz) by WESTEX



- ATPV 8.7 cal/cm² and HRC 2
- Stock sizes 36 through 64 in Regular and Tall
- 2 chest pockets with flaps and a built in mesh for gas detector use, pencil pocket on sleeve, 2 side hip pockets with pass through, 2 rear patch pockets and a tool pocket on leg
- Action back and elastic waist inserts for improved comfort
- Embroidery gap above both pockets, drop striping on back to accommodate large back art
- All materials comply to standards: CGSB 155.20, NFPA 2112, NFPA 1977, CGSB 155.22, NFPA 1975, ASTM F1506 (NFPA 70E/CSA Z462)
- Custom design and colours available, contact for more details (minimums apply)

STOCK SIZES

IUSRED7S	36-48
IUSRED7S-TALL	36T-48T
IUSRED7S	50-56
IUSRED7S-TALL	50T-56T
IUSRED7S	58-62
IUSRED7S-TALL	58T-64T
IUSRB7S	34-48
IUSRB7S-TALL	36T-48T
IUSRB7S	50-56
IUSRB7S-TALL	50T-56T
IUSRB7S	58-62
IUSRB7S-TALL	58T-64T
IUSGRY7S	36-48
IUSGRY7S-TALL	36T-48T
IUSGRY7S	50-56
IUSGRY7S-TALL	50T-56T
IUSGRY7S	58-62
IUSGRY7S-TALL	58T-64T
IUSNAV7S	36-48
IUSNAV7S-TALL	36T-48T
IUSNAV7S	50-56
IUSNAV7S-TALL	50T-56T
IUSNAV7S	58-62
IUSNAV7S-TALL	58T-64T

RED



ROYAL BLUE



GREY



NAVY BLUE



UNLINED COVERALLS - (7oz) by FIREZERO

FireZero®



UNLINED COVERALLS - (7oz) by FIREZERO



- 7 oz FireZero Flame Resistant twill weave fabric FireZero
- Virgin long staple type cotton, 90% Cotton / 10% Nylon
- Aramid high tenacity FR thread
- All metal thermally protected from the skin
- Bar-tacked at all stress points
- Protective shirt collar with velcro closure
- Heavy duty brass zipper on aramid tape
- Two-way #5 zipper at CF
- Storm guard over front zipper with snap closure
- Action back for mobility
- Side elasticized waist
- Separate arm cuffs with snap closures
- Velcro on bottom
- 2 flap chest patch pockets with snap closure
- FR cotton mesh left pocket
- 2 waist patch pockets with side access
- 2 rear hip patch pockets
- Pen pocket on left sleeve
- Tool pocket on right leg
- CAT 2
- ATPV 9.2 cal/cm2 (electric arc flash rating)
- NFPA 70E, ASTM F1506, CAN/CGSB 155.20, CAN/CGSB 155.22, OSHA 29 CFR1910.269, EN ISO11611, EN ISO11612, EN ISO14116
- UL certified NFPA2112-2018
- OEKO-TEX Standard 100
- 2" Yellow/Silver/Yellow FR Reflective Tape
- Industrial Launderability, double stitching on the tape
- Reflective tape over shoulder/arms/legs, striping "X" on back

STOCK SIZES

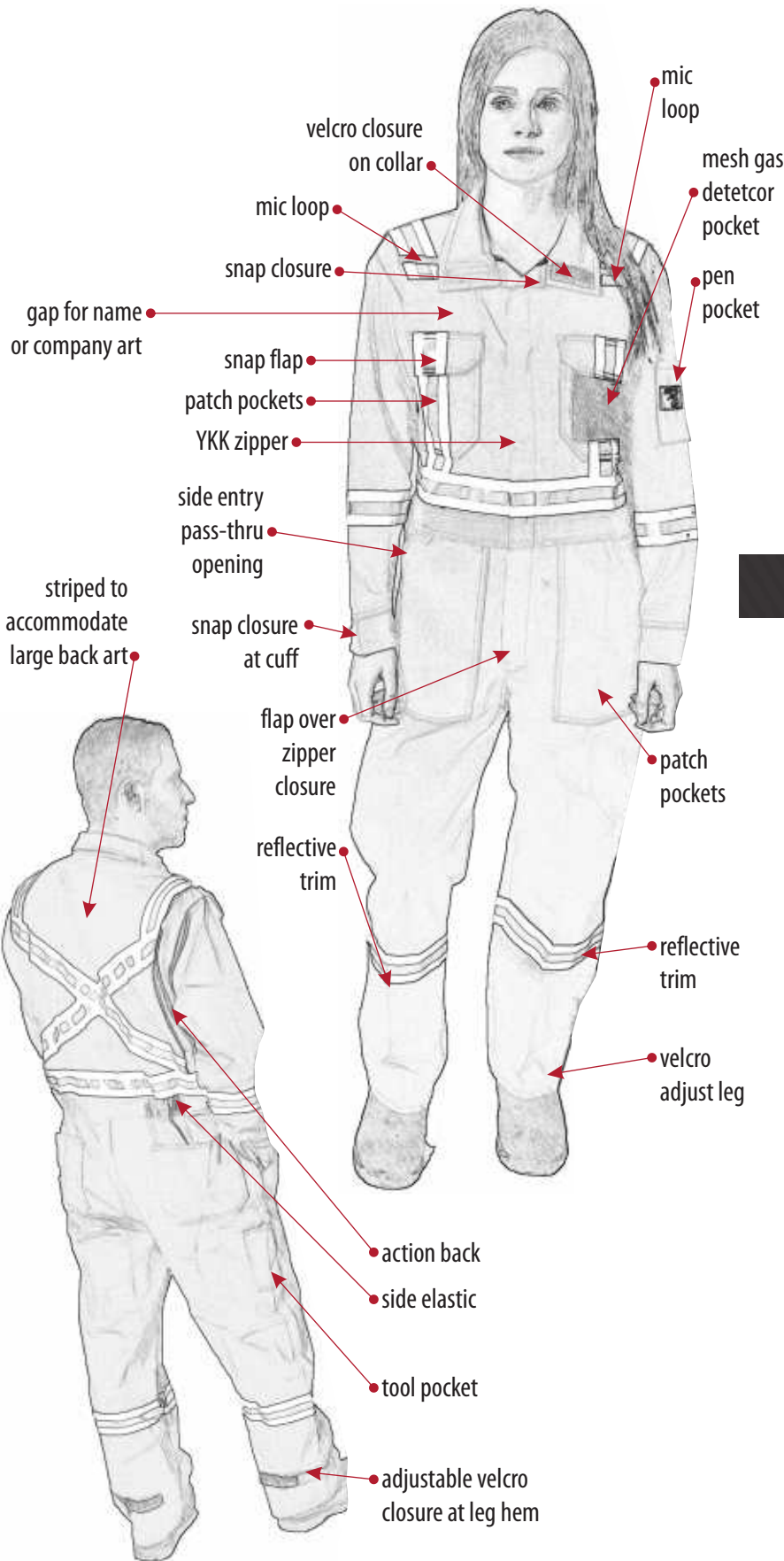
FZRED7S	34R-70T	RED 
FZRB7S	34R-70T	ROYAL BLUE 
FZGRY7S	34R-70T	GREY 
FZGRN7S	34R-70T	GREEN 
FZNVY7S	34R-70T	NAVY 

UNLINED COVERALLS - ULTRASOFT (9oz) by WESTEX

Westex
UltraSoft®



UNLINED COVERALLS - ULTRASOFT (9oz) by WESTEX



- ATPV 12.4 cal/cm² and HRC 2
- Stock sizes 34 through 68 in Regular and Tall
- 2 chest pockets with flaps and a built in mesh for gas detector use, pencil pocket on sleeve, 2 side hip pockets with pass through, 2 rear patch pockets and a tool pocket on leg
- Action back and elastic waist inserts for improved comfort
- Embroidery gap above both pockets, drop striping on back to accommodate large back art
- All materials comply to standards: CGSB 155.20, NFPA 2112, NFPA 1977, CGSB 155.22, NFPA 1975, ASTM F1506 (NFPA 70E/CSA Z462)
- Custom design and colours available, contact for more details (minimums apply)

STOCK SIZES

IUSRED9-REG	34-48
IUSRED9-TALL	36T-48T
IUSRED9-REG	50-56
IUSRED9-TALL	50T-56T
IUSRED9-REG	58-62
IUSRED9-TALL	58T-68T
IUSRBS9-REG	34-48
IUSRBS9-TALL	36T-48T
IUSRBS9-REG	50-56
IUSRBS9-TALL	50T-56T
IUSRBS9-REG	58-62
IUSRBS9-TALL	58T-68T
IUS9GRYS	34-48
IUS9GRYS-TALL	36T-48T
IUS9GRYS	50-56
IUS9GRYS-TALL	50T-56T
IUS9GRYS	58-62
IUS9GRYS-TALL	58T-68T
IUSBLACKS	34-48
IUSBLACKS-TALL	36T-48T
IUSBLACKS	50-56
IUSBLACKS-TALL	50T-56T
IUSBLACKS	58-62
IUSBLACKS-TALL	58T-68T

RED



ROYAL BLUE



GREY



BLACK

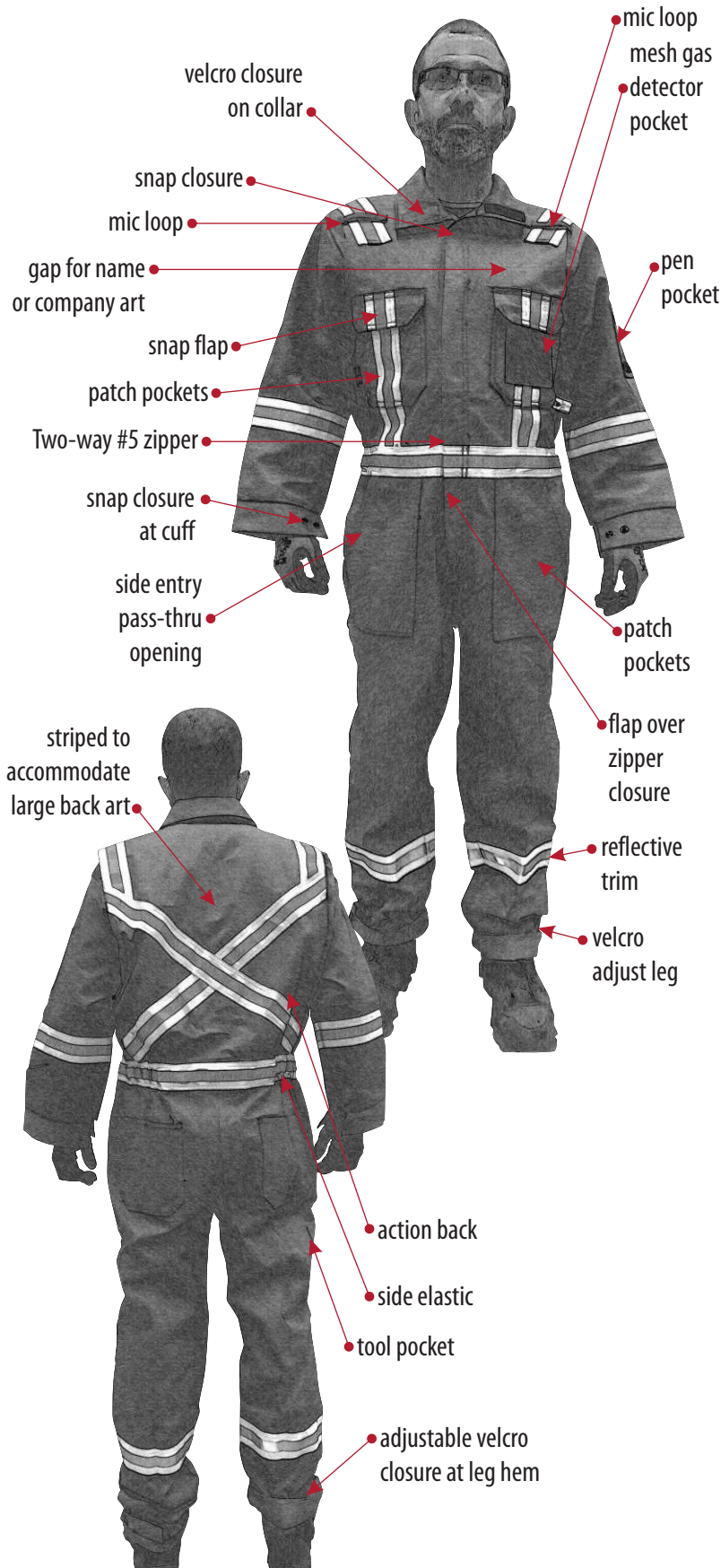


UNLINED COVERALLS - (9oz) by FIREZERO

FireZero®



UNLINED COVERALLS - (9oz) by FIREZERO



- 9 oz FireZero Flame Restant twill weave fabric
- Virgin long staple type cotton, 90% Cotton / 10% Nylon
- Aramid high tenacity FR thread
- All metal thermally protected from the skin
- Bar-tacked at all stress points
- Protective shirt collar with velcro closure
- Heavy duty brass zipper on aramid tape
- Two-way #5 zipper at CF
- Storm guard over front zipper with snap closure
- Action back for mobility
- Side elasticized waist
- Separate arm cuffs with snap closures
- Velcro Leg Adjustment
- 2 flap chest patch pockets with snap closure
- FR cotton mesh over left pocket
- 2 waist patch pockets with side access
- 2 rear hip patch pockets
- Pen pocket on left sleeve
- Tool pocket on right leg
- CAT2
- ATPV 13.2 cal/cm2 (electric arc flash rating) NFPA 70E, ASTM F1506, OSHA 29 CFR1910.269, CAN/CGSB 155.20, CAN/CGSB 155.220, EN ISO11611, EN ISO11612, EN ISO14116
- Material is UL Recognized per NFPA 2112-2018 (UL model CN901009)
- OEKO-TEX Standard 100
- 2" 3M RT-80 Reflective Tape or 2" TR69 Reflective Tape, YSY (If using 2" TR69 Reflective Tape, no 3M label)
- Industrial Launderability, double stitching on the tape
- Reflective tape over shoulder/waist/arms/legs, striping "X" on back

STOCK SIZES

FZGRY9S

34R-70T

GREY



FZRB9S

34R-70T

ROYAL BLUE



UNLINED COVERALLS - CSA CLASS 3 LEVEL 2 (7oz) by FIREZERO

FireZero®



UNLINED COVERALLS - CSA CLASS 3 LEVEL 2 (7oz) by FIREZERO



- 7 oz FireZero Flame Resistant twill weave fabric FireZero
- Virgin long staple type cotton, 90% Cotton / 10% Nylon
- Aramid high tenacity FR thread
- All metal thermally protected from the skin
- Bar-tacked at all stress points
- Protective shirt collar with velcro closure
- Heavy duty brass zipper on aramid tape
- Two-way #5 zipper at CF
- Storm guard over front zipper with snap closure
- Action back for mobility
- Side elasticized waist
- Separate arm cuffs with snap closures
- Velcro on bottom
- 2 flap chest patch pockets with snap closure
- FR cotton mesh left pocket
- 2 waist patch pockets with side access
- 2 rear hip patch pockets
- Pen pocket on left sleeve
- Tool pocket on right leg
- CAT 2
- ATPV 9.2 cal/cm2 (electric arc flash rating)
- NFPA 70E, ASTM F1506, CAN/CGSB 155.20, CAN/CGSB 155.22, OSHA 29 CFR1910.269, EN ISO11611, EN ISO11612, EN ISO14116, CSA Z96 Class 3 Level 2, CGSB 155.20, NFPA 2112, NFPA 70E, ASTM 1506
- UL certified NFPA2112-2018
- OEKO-TEX Standard 100
- 4" Yellow/Silver/Yellow FR Reflective Tape
- Industrial Launderability, double stitching on the tape
- Reflective tape over shoulder/waist/arms/legs, striping "X" on back

STOCK SIZES

FZORG7S

34R-70T

ORANGE

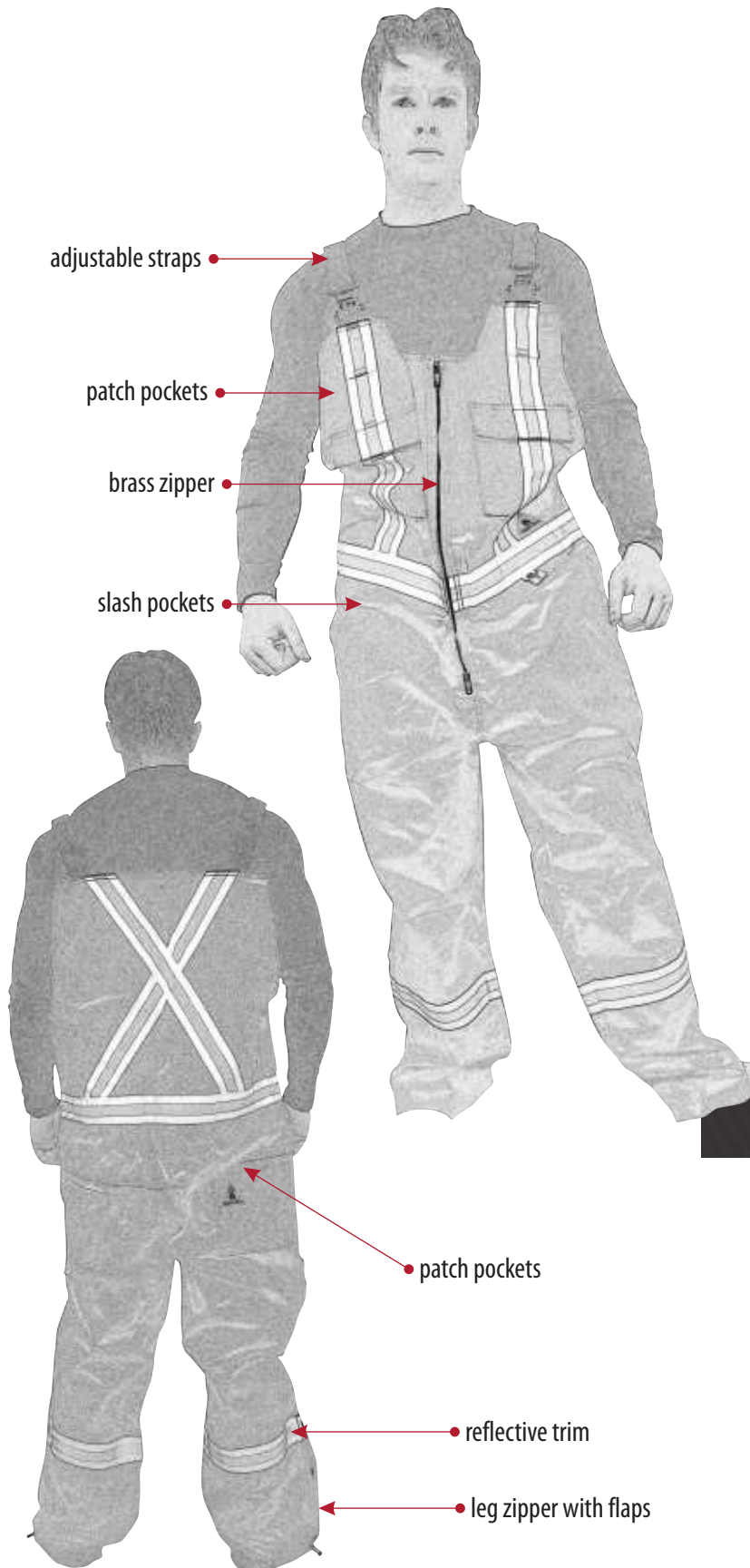



SUMMER BIB - (7 oz) by FIREZERO

FireZero®



SUMMER BIB - (7 oz) by FIREZERO



- 7oz FR Twill Weave Fabric FireZero
- 90% Cotton / 10% Nylon
- Aramid high tenacity FR thread
- All metal thermally protected from the skin
- Bar-tacked at all stress points
- Heavy duty #5 brass zipper on aramid tape
- Two-way 1 zipper at CF, one-way 2 12" zippers on leg
- Elasticized shoulder straps with adjustable buckles
- Velcro Leg Adjustment
- 2 chest patch pockets, flap with velcro closure, pencil slot on left pocket
- 2 slanted pockets at waist
- 2 patch rear hip pockets
- 1 tool pocket on right leg
- CAT 2
- ATPV 9.2 cal/cm2 (electric arc flash rating)
NFPA 70E, ASTM F1506, CAN/CGSB 155.20, CAN/CGSB 155.22, OSHA 29 CFR 1910.269, EN ISO11611, EN ISO11612, EN ISO14116
- The material is UL Recognized per NFPA 2112-2018 , file MH49121
- OEKO-TEX Standard 100
- 2" 3M RT-80 reflective tape, Yellow/Silver/Yellow
- Double stitching on the tape
- Reflective tapes around waist and leg, striping "X" on back

STOCK SIZES

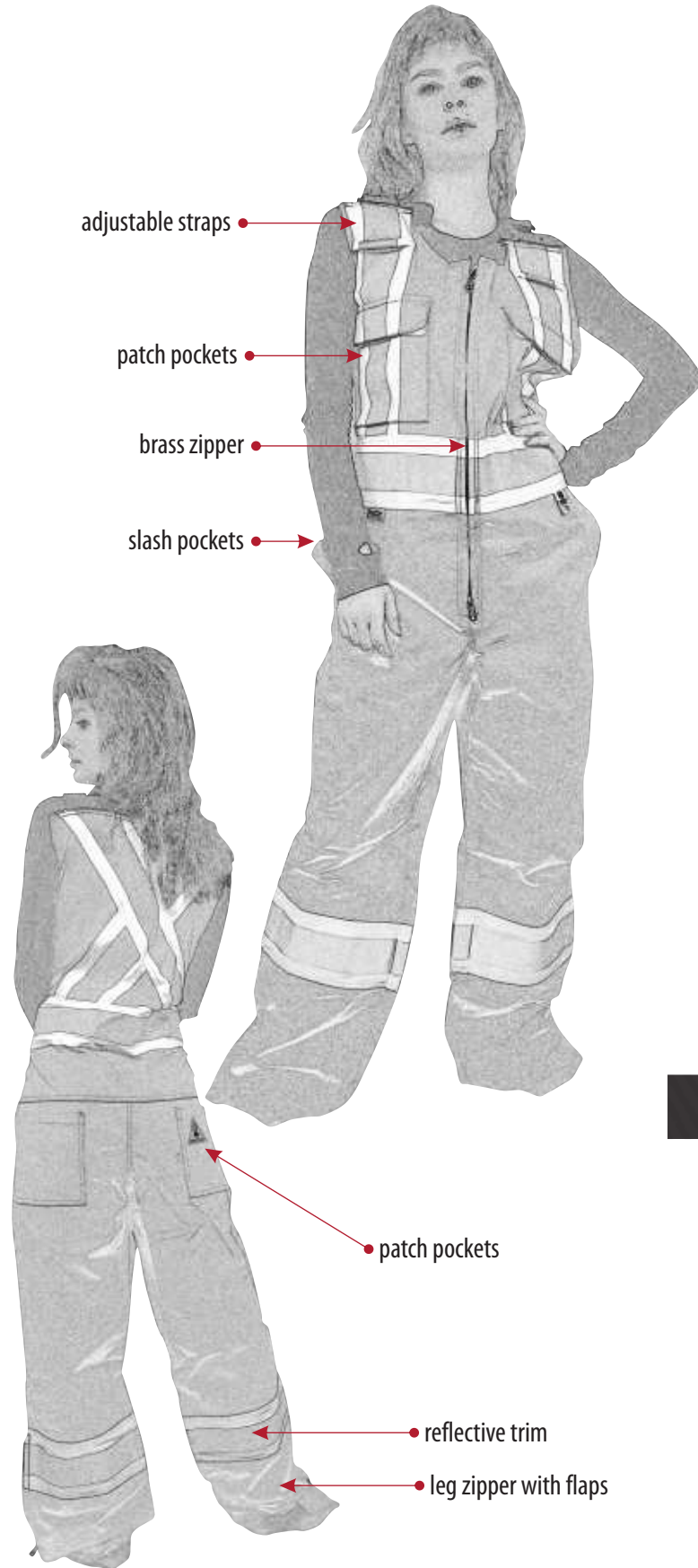
FZSBRB	S-3XL	ROYAL BLUE 
FZSBRED	S-3XL	RED 
FZSBBLK	S-3XL	BLACK 
FZSBGRY	S-3XL	GREY 


SUMMER BIB - (7 oz) by FIREZERO

FireZero®



SUMMER BIB - (7 oz) by FIREZERO



- 7oz FR Twill Weave Fabric FireZero
- 90% Cotton / 10% Nylon
- Aramid high tenacity FR thread
- All metal thermally protected from the skin
- Bar-tacked at all stress points
- Heavy duty #5 brass zipper on aramid tape
- Two-way 1 zipper at CF, one-way 2 12" zippers on leg
- Elasticized shoulder straps with adjustable buckles
- Velcro Leg Adjustment
- 2 chest patch pockets, flap with velcro closure, pencil slot on left pocket
- 2 slanted pockets at waist
- 2 patch rear hip pockets
- 1 tool pocket on right leg
- CAT 2
- ATPV 9.2 cal/cm² (electric arc flash rating)
NFPA 70E, ASTM F1506, CAN/CGSB 155.20, CAN/CGSB 155.22, OSHA 29 CFR 1910.269, EN ISO11611, EN ISO11612, EN ISO14116
- The material is UL Recognized per NFPA 2112-2018 , file MH49121
- OEKO-TEX Standard 100
- 4" 3M RT-81 reflective tape, Yellow/Silver/Yellow
- Double stitching on the tape
- Reflective tapes around waist and leg, striping "X" on back

STOCK SIZES

FZSBORG

S-3XL

ORANGE



INSULATED PARKA - ULTRASOFT by WESTEX

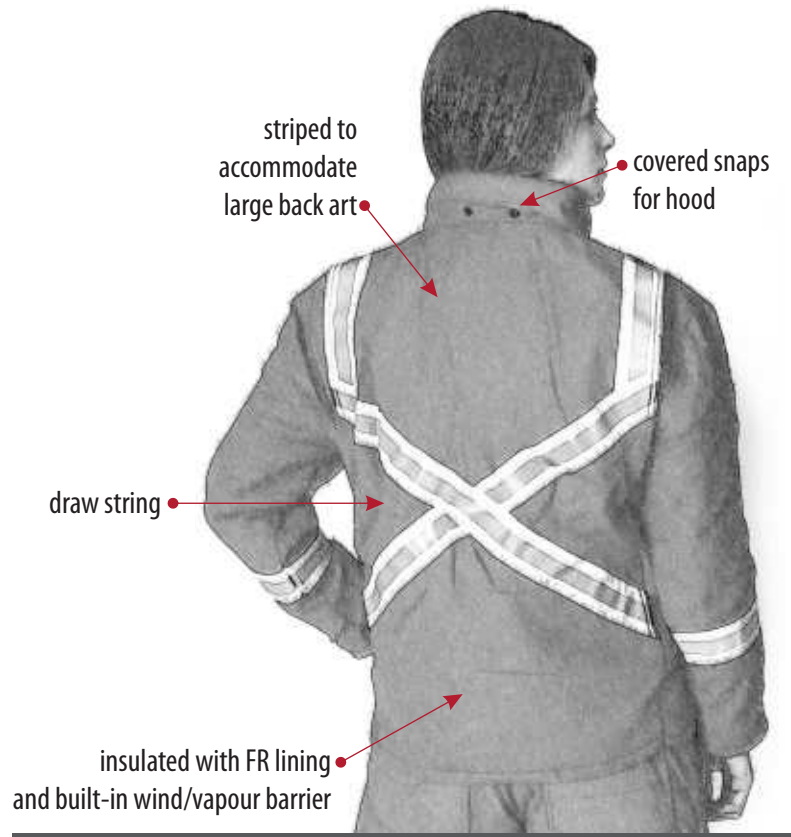
Westex
UltraSoft®



INSULATED PARKA - ULTRASOFT by WESTEX



- Outer shell 9oz Ultrasoft
- ATPV 41.8 cal/cm² and HRC 3
- Insulated with 7oz Modacrylic hi-loft quilted to 7oz FR 88/12 cotton twill inner lining, built in wind/vapour barrier
- Sizes S to 4XL, regs and tall
- 2 chest pockets with flaps and one built in mesh pocket for gas detector use, 2 lower patch pockets with flaps and side entry pencil pocket on the sleeve, draw string at parka waist to keep cold air out, action back for flexibility and comfort
- Embroidery gap above pockets, dropped X on back to accommodate larger back logos
- Materials comply to standards: CGSB 155.20, NFPA 2112, NFPA 1977, CGSB 155.22, NFPA 1975, ASTM F1506 (NFPA 70E/CSA Z462)
- Optional snap on hood available



STOCK SIZES

PIUSRED S-XLT
PIUSRED-TALL 2XL-4XLT

RED 

PIUSRIB S-XLT
PIUSRIB-TALL 2XL-4XLT

ROYAL BLUE 

PIUSGREY S-XLT
PIUSGREY-TALL 2XL-4XLT

GREY 

PIUSBLACK S-XLT
PIUSBLACK-TALL 2XL-4XLT

BLACK 

PIUSORG S-XLT
PIUSORG-TALL 2XL-4XLT

ORANGE 

INSULATED PARKA - (9 oz) by FIREZERO

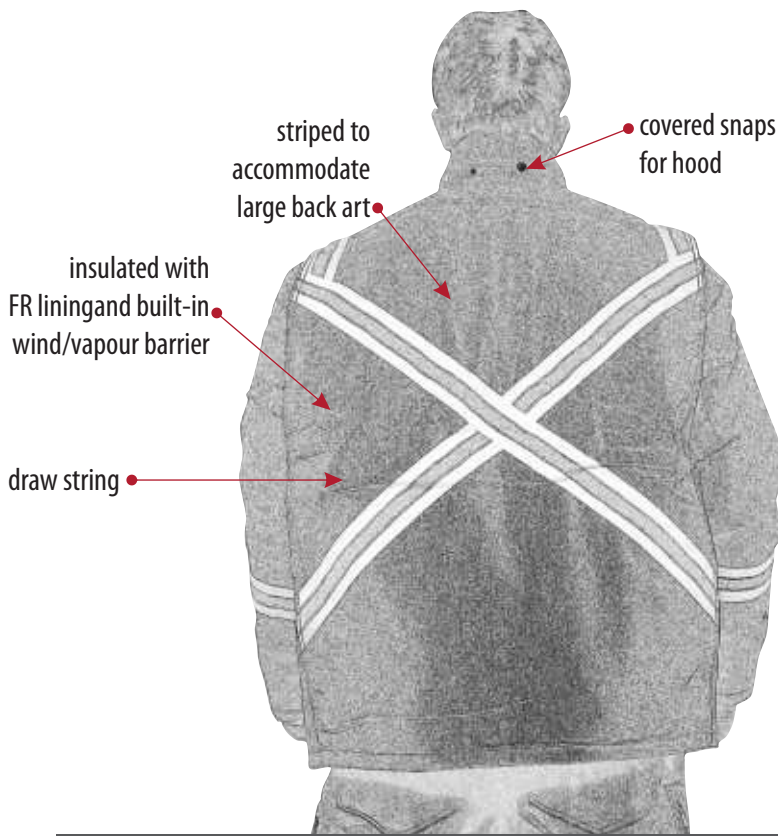
FireZero®



INSULATED PARKA - (9 oz) by FIREZERO



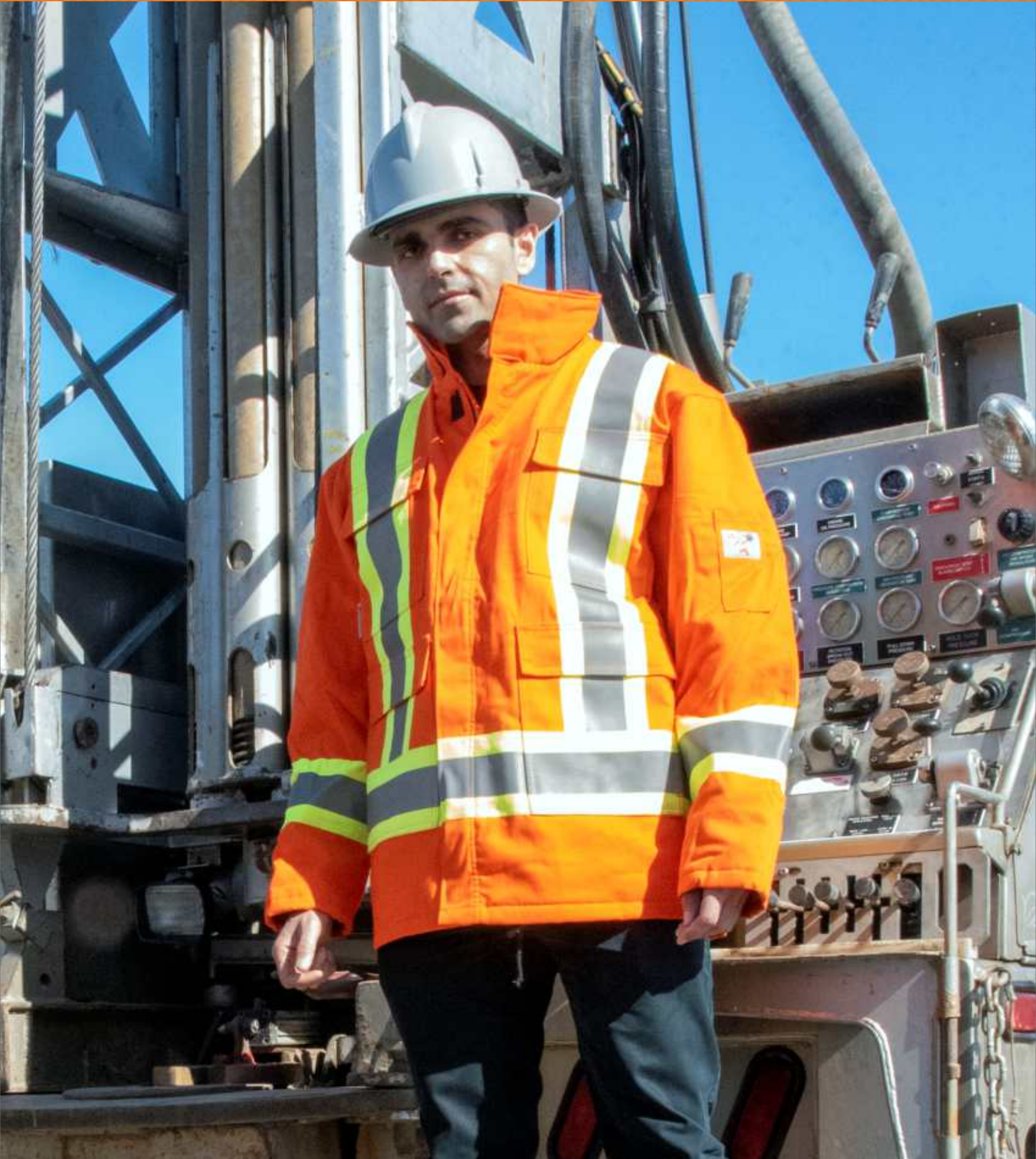
- 9oz royal blue/red/grey/black FR Twill Weave
- 90% Cotton/10% Nylon
- 13oz quilted enhanced
- Aramid high tenacity FR thread
- All metal thermally protected from the skin
- Bar-tacked at all stress points
- Protective stand-up collar with 1 set velcro closure
- Two-way heavy duty #8 brass zipper on aramid tape, double stitching on the zipper tape
- Storm guard over zipper with 4 sets velcro closure
- Action back for mobility • Adjustable cord along waist inside
- 4 snaps on the collar • Aramid knitted cuff inside sleeve
- 2 chest patch pockets, flap with 2 sets velcro closure each
- FR cotton mesh over left pocket
- 2 waist patch pockets, flap with 2 sets velcro closure each
- Pen pocket on left sleeve
- 1 inside chest patch pocket on the left with 1 set velcro closure
- Protective flame retardant and arc flash suits described in this technical standard are used in noxious and hazardous environments must meet the following safety and visibility standards:
- CAT 4 • ATPV 54.4cal/cm2 (electric arc flash rating)
- US Standards: NFPA 70E, ASTM F1506, OSHA 29 CFR1910.269, Out layer material is UL Recognized per NFPA 2112-2018 (UL model CN901009)
- CAN Standards: CAN/CGSB 155.20, CAN/CGSB 155.22
- EUR Standards: EN ISO11611, EN ISO11612, EN ISO14116
- OEKO-TEX Standard 100 • 2" CSR 1303 NM2Y reflective tape, YSY
- Double stitching on the tape
- Reflective tapes around arm, vertical at front, striping "X" on back



STOCK SIZES

FZRED	S-6XL	RED 
FZRB	S-6X	ROYAL BLUE 
FZGRY	S-6XL	GREY 
FZBLK	S-6XL	BLACK 

INSULATED PARKA - ORANGE



INSULATED PARKA - ORANGE



- Outer shell 9oz Ultrasoft
- ATPV 41.8 cal/cm² and HRC 3
- Insulated with 7oz Modacrylic hi-loft quilted to 7oz FR 88/12 cotton twill inner lining, built in wind/vapour barrier
- Sizes S to 4XL, regs (talls not available)
- 2 chest pockets with flaps and 2 lower patch pockets with flaps and side entry pencil pocket on the sleeve, draw string at parka waist to keep cold air out, action back for flexibility and comfort
- 4 inch reflective striping
- Materials comply to standards: CGSB 155.20, NFPA 2112, NFPA 1977, CGSB 155.22, NFPA 1975, ASTM F1506 (NFPA 70E/CSA Z462), CSA Class 3 Level 2
- Optional snap on hood available



STOCK SIZES

PIUSORG

S-4XL

ORANGE



INSULATED PARKA - FR IIIA by MILLIKEN

 Westex
CXP®



INSULATED PARKA - FR IIIA by MILLIKEN



- Outer shell 6.5oz FR Knits
- ATPV 41.8 cal/cm² and HRC 3
- Insulated with 7oz Modacrylic hi-loft quilted to 7oz FR 88/12 cotton twill inner lining, built in wind/vapour barrier
- Sizes S to 4XL, regs and tall
- 2 chest pockets with flaps and one built in mesh pocket for gas detector use, 2 lower patch pockets with flaps and side entry pencil pocket on the sleeve, draw string at parka waist to keep cold air out, action back for flexibility and comfort, embroidery gap above pockets, dropped X on back to accommodate larger back logos
- Materials comply to standards: CGSB 155.20, NFPA 2112, NFPA 1977, CGSB 155.22, NFPA 1975, ASTM F1506 (NFPA 70E/CSA Z462)

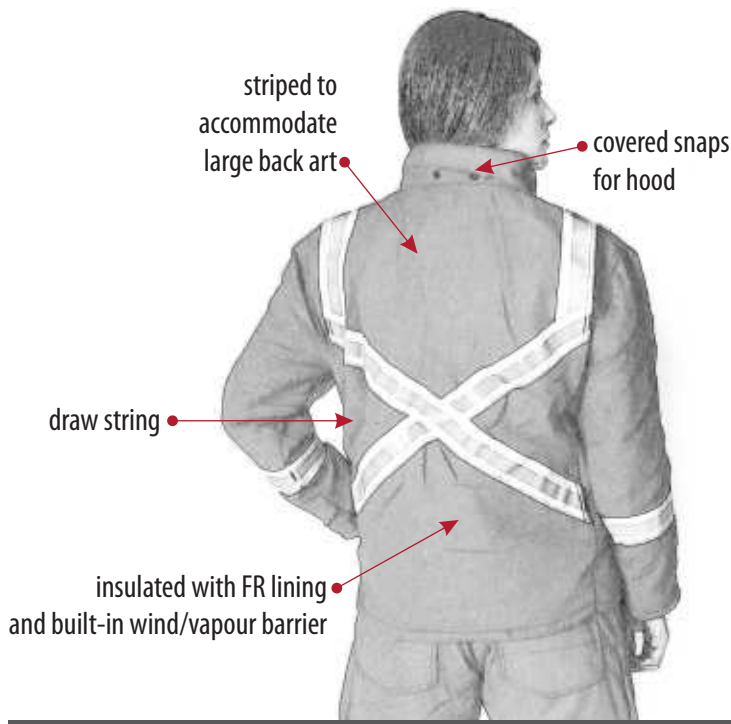
pen pocket

STOCK SIZES

PNOM6RB
PNOM6RB

S-XLT
2XL-4XLT

ROYAL BLUE



INSULATED BIB - ULTRASOFT by WESTEX

Westex
UltraSoft®



INSULATED BIB - ULTRASOFT by WESTEX



- Outer shell 9oz Ultrasoft
- ATPV 41.8 cal/cm² HRC 3
- Insulated with 7oz Modacrylic hi-loft quilted to 7oz FR 88/12 cotton twill inner lining, built in wind/vapour barrier
- Sizes S to 4XL, regs and tall
- 2 chest pockets, 2 rear pockets, high length #10 brass zipper for easy on and off, storm flap to keep out the cold, adjustable tension buckles with elastic shoulder straps, elasticized waist for comfort
- Materials comply to standards: CGSB 155.20, NFPA 2112, NFPA 1977, CGSB 155.22, NFPA 1975, ASTM F1506 (NFPA 70E/CSA Z462)
- 4 inch striping on ORANGE

STOCK SIZES

BIUSRED S-XLT
BIUSRED-TALL 2XL-4XLT

RED



BIUSRB S-XLT
BIUSRB-TALL 2XL-4XLT

ROYAL BLUE



BIUSGREY S-XLT
BIUSGREY-TALL 2XL-4XLT

GREY



BIUSBLACK S-XLT
BIUSBLACK-TALL 2XL-4XLT

BLACK



BIUSORG S-XL
BIUSORG-TALL 2XL-4XLT

ORANGE



4 INCH STRIPING

INSULATED BIB - FR IIIA by MILLIKEN

Westex
CXP®



INSULATED BIB - FR IIIA by MILLIKEN

- Outer shell 6.5oz FR Knits
- ATPV 41.8 cal/cm² and HRC 3
- Insulated with 7oz Modacrylic hi-loft quilted to 7oz FR 88/12 cotton twill inner lining, built in wind/vapour barrier
- Sizes S to 4XL, regs and tall
- 2 chest pockets, 2 rear pockets, thigh length #10 brass zipper for easy on and off, storm flap to keep out the cold, adjustable tension buckles with elastic shoulder straps, elasticized waist for comfort
- Materials comply to standards: CGSB 155.20, NFPA 2112, NFPA 1977, CGSB 155.22, NFPA 1975, ASTM F1506 (NFPA 70E/CSA Z462)



STOCK SIZES

BNOM6RB
BNOM6RB

S-XL
2XL-4XL

ROYAL BLUE



WINTER HEADWEAR

Insulated Snap-on Hoods - Ultrasoft (9oz) by Westex

- ATPV 41.8 cal/cm² and HRC 3
- Insulated with 7oz Modacrylic hi-loft quilted to 7oz FR 88/12 cotton twill inner lining, built in wind/vapour barrier
- One size fits all • Velcro closure on front
- Reflective strip for better visibility in low light work conditions
- Materials comply to standards: CGSB 155.20, NFPA 2112, NFPA 1977, CGSB 155.22, NFPA 1975, ASTM F1506 (NFPA 70E/CSA Z462)



STOCK SIZES

	RED	HDIUSRED	ONE SIZE
	ROYAL BLUE	HDIUSRB	ONE SIZE
	GREY	HDIUSGREY	ONE SIZE
	BLACK	HDIUSBLK	ONE SIZE
	ORANGE	HDIUSORG	ONE SIZE
	ROYAL BLUE	HDNOMRB	ONE SIZE



• velcro closure

Insulated Hard hat Liners - Ultrasoft (9oz) by Westex | Insulated Hard hat Liners - FR IIIA (6.5oz) by Milliken

- ATPV 41.8 cal/cm² and HRC 3
- Insulated with 7oz Modacrylic hi-loft quilted to 7oz FR 88/12 cotton twill inner lining, built in wind/vapour barrier
- One size fits all • Velcro closure on front
- Fluted FR 2 ply knit on bottom for warmth and close fit under jacket collar
- Materials comply to standards: CGSB 155.20, NFPA 2112, NFPA 1977, CGSB 155.22, NFPA 1975, ASTM F1506 (NFPA 70E/CSA Z462)

STOCK SIZES

	RED	IUSHHLRED	ONE SIZE
	ROYAL BLUE	IUSHHLRB	ONE SIZE
	GREY	IUSHHLGREY	ONE SIZE
	ROYAL BLUE	NOMHHLRB	ONE SIZE



• velcro closure



FR Knit Balaclava



Nomex IIIA 2 Ply Knits

- Black only O/S
- Available in Balaclava, Cuffed Toque, Beanie and Neck Warmer styles



FR Knit Toque



FR Knit Beanie



FR Knit Neck Warmer



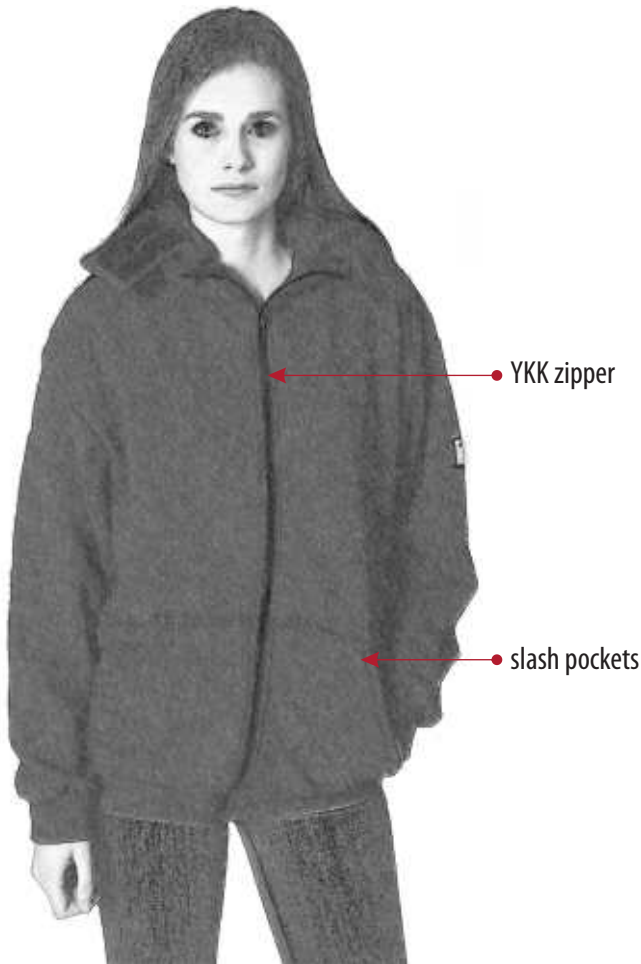
STOCK SIZES

FRbalaclava	ONE SIZE	BLACK ●
FRtoque	ONE SIZE	BLACK ●
FRbeanie	ONE SIZE	BLACK ●
FRneckwarmer	ONE SIZE	BLACK ●

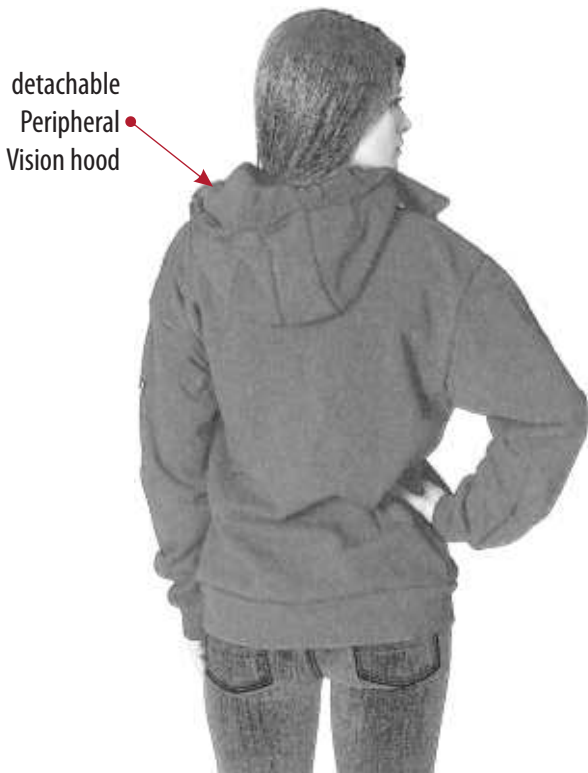
HOODIE - FR UNSTRIPED



HOODIE - FR UNSTRIPED



- Stock sizes XS-4XL
- These hoodies are extremely comfortable for every day wear
- Warmth and wind resistance without added bulk, while still offering exceptional FR protection
- Detachable snap on Peripheral Vision hood with front closure for warmth
- Full zip front with YKK Vislon FR Zipper, machine washable, very little shrinkage, inherent FR Tested to NFPA 70E, NFPA 2112, CSA Z462, CSGB 155.20 - 2000, ASTM F1930-2000 and ASTM D6413
- ATPV/EBT Value (cal/cm²) 19, HRC Rating (Category/Level) 2, ATPV Value (cal/cm²) 18, Vertical Flame as received ASTM 6413-99, Vertical Flame after laundering ASTM 6413-99, Vertical Flame after drycleaning ASTM 6413-99



STOCK SIZES

FZHOODDIENAV XS-4XL

DARK NAVY BLUE UNSTRIPED 

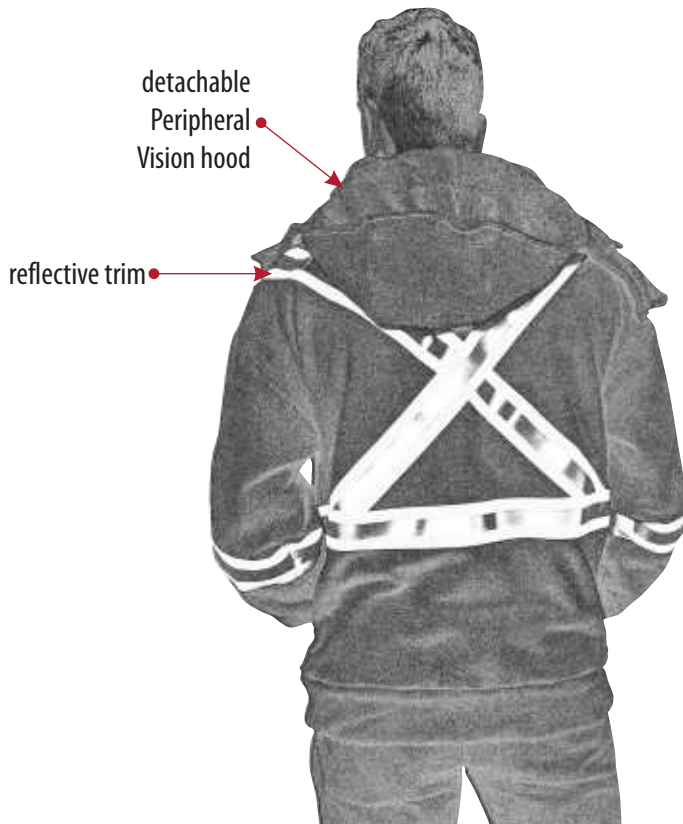
HOODIE - FR STRIPED



HOODIE - FR STRIPED



- Stock sizes XS-4XL
- These hoodies are extremely comfortable for every day wear
- Warmth and wind resistance without added bulk, while still offering exceptional FR protection
- Detachable snap on Peripheral Vision hood with front closure for warmth
- Full zip front with YKK Vislon FR Zipper, machine washable, very little shrinkage, inherent FR Tested to NFPA 70E, NFPA 2112, CSA Z462, CSGB 155.20 - 2000, ASTM F1930-2000 and ASTM D6413
- ATPV/EBT Value (cal/cm²) 19, HRC Rating (Category/Level) 2, ATPV Value (cal/cm²) 18, Vertical Flame as received ASTM 6413-99, Vertical Flame after laundering ASTM 6413-99, Vertical Flame after drycleaning ASTM 6413-99



STOCK SIZES

FZHOODDIESNAV XS-4XL

DARK NAVY BLUE
STRIPED

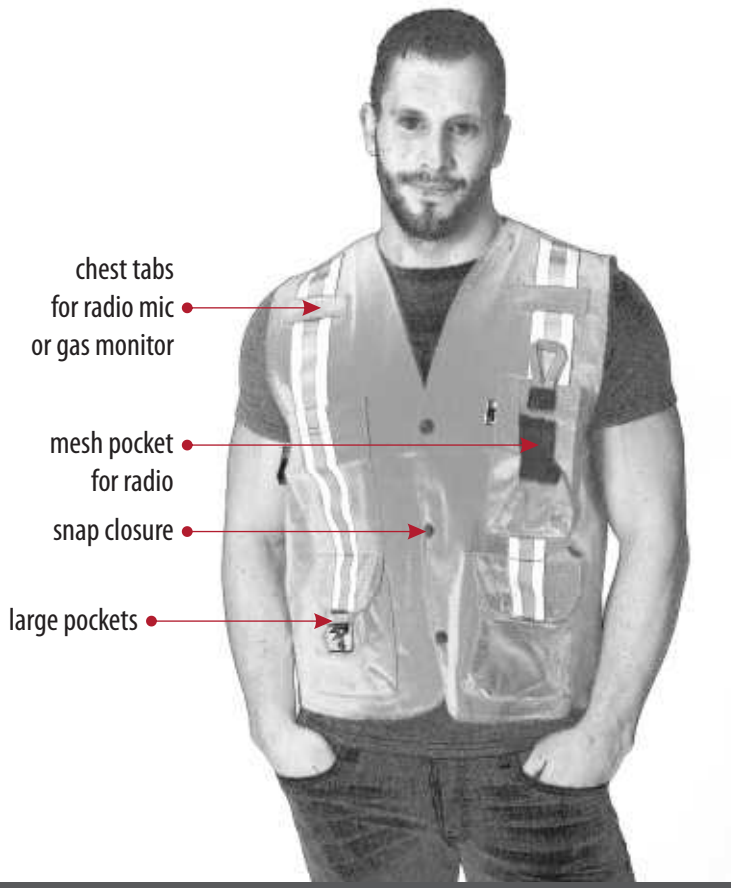


UNLINED FR SAFETY VESTS - ULTRASOFT (9oz) by WESTEX

 Westex
UltraSoft®



UNLINED FR SAFETY VESTS - ULTRASOFT (9oz) by WESTEX



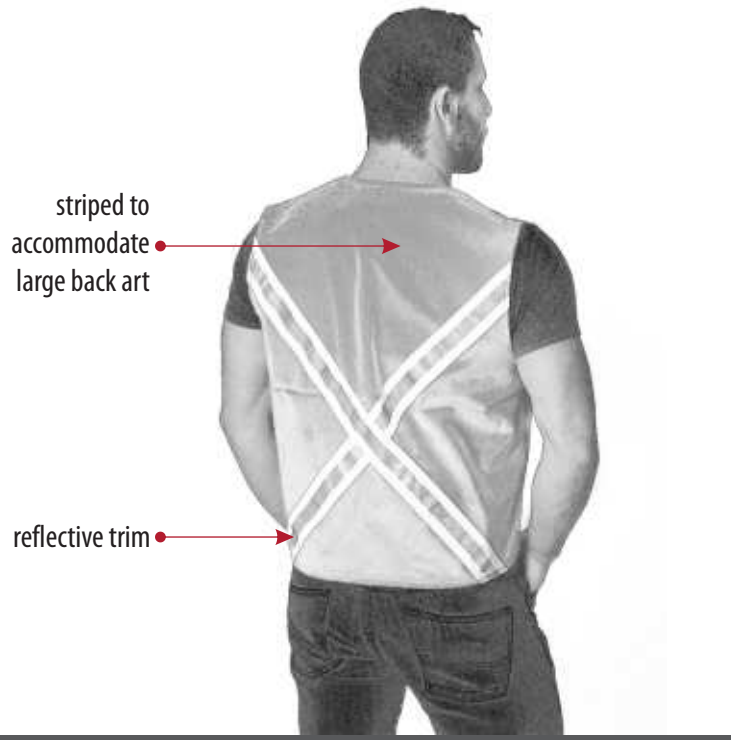
chest tabs
for radio mic
or gas monitor

mesh pocket
for radio

snap closure

large pockets

- ATPV 12.4 cal/cm² and HRC 2
- Stock sizes S to 4XL
- 2 large lower pockets, 2 upper pockets, including mesh for radio or detector, chest tabs for radio mic or gas monitor
- Embroidery gap above both pockets, drop striping on back to accommodate large back art
- Materials comply to standards: CGSB 155.20, NFPA 2112, NFPA 1977, CGSB 155.22, NFPA 1975, ASTM F1506 (NFPA 70E/CSA Z462)



striped to
accommodate
large back art

reflective trim

STOCK SIZES

FRVESTRED

S-4XL

RED



FRVESTRB

S-4XL

ROYAL BLUE



FRVESTBK

S-4XL

BLACK



WESTEX CLEANING & MAINTENANCE GUIDE



DESCRIPTION OF WESTEX COTTON AND COTTON BLEND FR FABRICS

Since 1987, garments made from Westex fabrics have been used by various industries for superior protection against thermal exposures from molten ferrous metals, flash fire, electrical arc and other hazardous workplace exposures.

The Westex line of flame resistant fabrics include:

UltraSoft 88% Cotton/12% High Tenacity Nylon Blends

UltraSoft AC 88% Cotton/12% High Tenacity Nylon Blends

Indura 100% Cotton

The flame resistance of these fabrics is achieved through a proprietary treatment process. This finish was designed by Westex to anticipate and withstand the most rigorous industrial laundering conditions for proper cleaning of work clothing. A flame retardant polymer is embedded in the fabric in a fashion that is durable to

multiple launderings normally required of such garments. Westex guarantees the flame resistance of UltraSoft, UltraSoft AC and Indura fabrics for useful life of such garments when proper care procedures are employed.

It is important to recognize that the thermal protective properties of any flame resistant fabric can be compromised by the presence of contaminants on the fabric from which the garment is made. Even though the original fabric is fully flame resistant as measured by standard test protocols, flammable contaminants on the garments can ignite, and will burn until consumed and thereby increase heat transfer to the wearer and lead to flame resistance failure.

The procedures described in this guide have been utilized effectively for removing industrial soiling and other contaminants from the UltraSoft, UltraSoft AC and Indura garments while maximizing use life. Users of Westex fabrics should ensure that the techniques they use achieve similar results, by performing their own tests and/or working with Westex.

COMMERCIAL LAUNDERING OF WESTEX GARMENTS

Detergent and Supplemental Chemicals

WASHING DETERGENT SUPPLIES

A variety of commercial and industrial detergent formulations are available for processing cotton and cotton rich garments and have been used for a number of years. A list of suppliers of these chemicals is given in Appendix I. In recent years, detergents designed for use at wash temperatures of 140°F (60°C) or less such as high surfactant, low alkalinity products have gained some popularity, and have no adverse effect on the UltraSoft, UltraSoft AC or Indura fabrics. It is important to use a detergent and wash temperature that is sufficient to thoroughly clean the soiled clothing, even considering supplemental alkalinity and higher wash temperatures where appropriate. Use of a detergent with a phosphate builder has proved highly beneficial for laundering Westex flame resistant fabrics. The best results in cleaning and utilization of detergent supplies are obtained when using softened water. Westex fabrics can be washed at temperatures up to 165°F (75°C).

ALKALINITY

Detergents used commercially have pH values ranging from 9–13, and in most instances are effective in removing dirt and oil from soiled garments. In instances requiring more aggressive soil and oil removal, higher wash temperatures and supplemental alkalinity should be considered. If softened water is not available, we recommend against the use of silicate supplemented detergents. Westex

fabrics are not adversely affected by high pH, however, the effect on colorfastness of garments should be checked to maintain an acceptable balance between cleanliness and color retention.

SOFTENERS

We recommend against the use of a supplemental softener except in unique circumstances that are specifically described to us and that are tested for impact on flame resistance.

STARCH

We recommend against the use of starch or other hand builders except in unique circumstances that are specifically described to us, and that are tested for impact on flame resistance.

Detergents and Supplemental Chemicals to Avoid

CHLORINE BLEACH

Chlorine bleach (sodium hypochlorite) must not be used on Westex garments, either separately or in detergents. Review of various laundry advisories generally recommends against the use of chlorine bleach for protective fabrics of any fiber composition.

HYDROGEN PEROXIDE BLEACH

Hydrogen Peroxide, which is an oxygen bleach, must not be used on UltraSoft, UltraSoft AC or Indura garments either separately or in detergents. The presence of metals with hydrogen peroxide can catalyze the decomposition of the Westex polymer.

SOAPS

The use of soaps (salts of fatty acids) is not recommended for laundering UltraSoft, UltraSoft AC or Indura garments. Soaps can form insoluble scums with hard water that are deposited on the fabric. Soap scums may be flammable themselves and they can adversely affect the thermal protection performance of the garment if they burn.

Recommended Washing/Drying Procedures

WASHING PROCEDURES GENERAL FORMULA

The formula in **Appendix II** provides complete operational steps for commercially laundering Westex garments. The actual conditions used should be selected from this formula based on the degree of soiling and other factors to be considered for the garments being processed. For lightly soiled garments, not all steps need to be used. To improve soil removal and minimize redeposition, a “multi add” procedure is recommended. Consult your chemical supplier (**Appendix I**) for assistance with quantity of supplies and conditions to be used for your specific case.

LOADING WASHER

Westex garments can be washed in a variety of wash formulations depending on the degree and type of soil. Westex garments should be washed with other Westex garments. Be sure that Westex garments are clearly identifiable. Care should also be exercised in mixing light and dark colors as well as heavy and light soiled items. Normal washer loads are generally set at 80% of washer capacity for 100% cotton garments, however, loading at 65% will provide better cleaning for heavily soiled items.

WASH TEMPERATURE

The range of wash temperatures suggested take into account various degrees of soiling. The higher the temperatures, the better the cleaning for heavily soiled garments. However, compatibility of wash temperature with the detergent used should be considered.

COLORFASTNESS OF GARMENTS

Wash temperatures higher than 165°F (74°C) may affect the washfastness (color loss) of certain colors. Likewise, the presence of sodium perborate in the wash system will significantly affect the shade of certain naphthol dyes.

RINSING

As for all washed garments, UltraSoft, UltraSoft AC and Indura garments must be adequately rinsed to remove wash chemicals and to lower the pH to that of the

water supply. To minimize washer-induced wrinkles, water temperature is reduced in each succeeding rinse cycle until the last operation (sour) where it should be 100°F (38°C) or lower.

SOUR

When laundering Westex garments, the use of a sour operation after thorough rinsing is strongly recommended. Sour is used to reduce fabric's pH from the alkaline detergents used for cleaning for the benefit of reducing the possibility of dermatological reactions from high pH. No adverse effect on flame resistance results from the use of acid sour. Residual alkalinity in any garment can cause skin irritation and other problems. To ensure that all traces of wash chemical alkalinity are neutralized, sour can be added to the final rinse cycle in the wash wheel. Garments should not be rinse further after the sour is added. Avoid overuse of sour because it can result in highly acidic fabrics. Any standard or buffered sour is acceptable for use with Westex garments.

DRYING AND FINISHING

Westex garments can be dried and finished using normal methods for cotton fabrics available to laundries. To reduce the possibility of shrinkage, it is important that cotton garments not be overdried in any step of the operation. Overdrying has been determined to be the main cause of excessive garment shrinkage.

TUMBLE DRY CONDITIONING/FINISHING

In many instances tumble dry conditioning is the only finishing necessary for Westex garments. Tumble dry conditioning can be done prior to wet-on-dry tunnel finishing (see Section below) or pressing. For best results, tumble driers should not be overloaded. Garments should be dried efficiently at stack temperatures between 140°F (60°C) and 165°F (74°C). Garment temperature measured in the basket should not exceed 280°F (138°C). Do not overdry garments or excessive shrinkage will occur. If possible, remove garments from dryer when slightly damp (about 10% moisture) and hang to dry or tunnel process. Garments should not remain in a hot tumbler when not in motion.

WET-TO-DRY TYPE TUNNEL DRYING/FINISHING

Wet garments from the wash wheel or partially dry tumble dried garments can be finished by hanging on hanger, and passing through a tunnel containing forced air supplied at 300°F (149°C) dry bulb and 190°F (80°C) wet bulb at a rate just sufficient to completely dry the garments. Garment temperature should not exceed 280°F (138°C). Again, do not overdry.

DRY-TO-DRY TYPE TUNNEL DRYING/FINISHING

This process is not recommended for UltraSoft, UltraSoft AC or Indura garments. Should the operational flow of your plant require passage through the tunnel, we recommend using the wet-to-dry procedure or passing fully tumble dried garments through the tunnel at an ambient air temperature.

PRESSING

If pressing is required, the conditions employed for pressing all-cotton fabrics are acceptable for Westex garments.

HOME LAUNDERING WESTEX GARMENTS

GENERAL GUIDELINES

UltraSoft, UltraSoft AC and Indura fabrics can be washed and Dried by any conventional home method, followed by hand ironing if necessary. No special technology is needed for home laundering Westex garments. However, home procedures may not remove the last traces of very heavy, widespread or ground-in soils, which may be flammable and could adversely affect the performance of Westex garments. If Home laundering does not remove contaminants or contaminant build-up, garments can be periodically dry cleaned or commercially laundered. When garments are contaminated by hazardous materials, only commercial or on-site laundering should be used with the appropriate wastewater treatment techniques.

The following procedures can help provide optimum cleaning and maintenance of protective apparel:

Detergents and other Laundry Products

WASHING DETERGENT SUPPLIES

A wide variety of detergents are available in supermarkets and other stores for household use. A list of detergents acceptable for use with Westex garments is given in **Appendix III**. It is important to use a detergent and wash temperature that is sufficient to thoroughly clean soiled clothing.

Washing detergent supplies not recommended for use with Westex garments are listed in **Appendix IV**.

OTHER LAUNDRY PRODUCTS

Laundry products such as fabric softeners and hand builders (starch) present a complex situation relative to use with all flame resistant garments washed at home. Since it is impossible to examine and control each product and procedure that might be used, we recommend that such products not be used.

USE OF SOFTENED WATER

For best cleaning results and the preservation of protective characteristics, an adequate supply of soft water is required for laundering Westex garments. Hard water contains salts, (such as calcium and magnesium,) which combine with other salts and fatty based soaps to form insoluble deposits, film, scum and curd, which can deposit on the fabric. These contaminants are difficult to rinse from the fabric and may mask the flame resistance. Using soft water reduces detergent consumption, improves the quality of washing and avoids adverse effects on flame retardancy.

For more specific details, see **Appendix V** for information on water hardness and its effect on home laundering.

Detergents and Supplemental Chemicals to Avoid

CHLORINE BLEACH

Chlorine bleach (sodium hypochlorite) must not be used on Westex garments, either separately or in detergents. Review of various laundry advisories generally recommends against the use of chlorine bleach for protective fabrics of any fiber composition.

HYDROGEN PEROXIDE

Hydrogen peroxide, which is an oxygen bleach, must not be used on Westex garments, either separately or in detergents. The presence of metals with hydrogen peroxide can catalyze the decomposition of the Westex polymer.

SOAPS

The use of soaps (salts of fatty acids) is not recommended for laundering Westex garments. Soaps can form insoluble scums with hard water that are deposited on the fabric. Soap scums may be flammable themselves and can adversely affect the thermal protection performance of the garment if they burn.

Washing/Drying Procedures

SORTING

Westex garments should be sorted by color, light washed with light colors and dark with dark to avoid dye transfer. Westex garments should be washed with other Westex garments.

PRETREATING

Stains, as well as deep soil lines on the collars and cuffs of garments, are more readily removed if pretreated. Stains should be pretreated at the earliest opportunity and sufficient time allowed for the pretreatment material to penetrate and loosen the soil. The heavily soiled or stained areas should be rubbed with a full-strength, heavy-duty liquid detergent or any off-the-self laundry pretreatment product. Such pretreatment products should not contain bleach or hydrogen peroxide either separately or in combination with detergent.

LOAD SIZE

When laundering Westex garments, it is important not to overload the machine. To ensure a cleaner wash and avoid setting wash wrinkles, the load size must permit clothes to move freely through the wash water and rinse cycle. Regardless of the machine's rated capacity in pounds, bulk—not weight should be the limiting factor. For optimum performance, wash garments inside out.

WASH TEMPERATURE

Wash Westex garments that are heavily soiled using the "hot" water temperature

setting. Garments with lesser degrees of soil can be laundered with lower water temperatures, which also will be beneficial in retaining garment color.

TUMBLE DRYING

Westex garments can be tumble dried or air dried following washing. For tumble-drying, drying time should be carefully controlled so that garments are removed from the drier immediately when dry or when slightly damp. Overdrying will result in excessive shrinkage. Drying times will vary depending on the load size and the

relative weight of the garments being dried. Use of the "Permanent Press" setting on the dryer provides a beneficial cool down cycle.

IRONING

Depending on individual preferences, Westex garments may require pressing. A steam or dry iron may be used on the cotton setting. Ironing has no adverse effect on flame resistance properties of Westex fabrics.

DRY CLEANING

Dry cleaning Westex garments is recommended for effective removal of greases and oils that are not easily removed by home or commercial laundering. Dry cleaning will not adversely affect the flame resistance of Westex garments. Care should be taken to maintain the solvent in a clean condition to avoid soil redeposition. Thorough removal of all traces of dry cleaning solvent from garments

is recommended. Dry cleaning is not recommended for denim garments because it can result in color loss. For removing body soils and odors, dry cleaning may not be as effective as washing. After five dry cleanings, a water wash is recommended to offset this problem.

MAINTENANCE OF ULTRASOFT, ULTRASOFT AC, AND INDURA GARMENTS

In order to perform its protective function, a garment must be maintained in its original condition. Rips, tears and abrasion to the fabric are normal consequences

of use and they should be repaired as soon as possible. For advice on proper repair techniques, contact your uniform service provider or clothing manufacturer.

APPENDIX I

Suppliers List: Laundry Supplies

(From Laundry and Supplier Directory and Buyer Guide, 2000/2001, Industrial Launderer)

Other suppliers not listed in this appendix may also have acceptable products for washing Westex garments. For additional information, contact the Uniform and Textile Service Association; 1300 North 17th St., Suite 750, Arlington, VA 22209.

Note: Listing of suppliers in this appendix does not indicate a Westex endorsement.

DIAMOND CHEMICAL CO., INC.

Union Ave. & DuBois St.
P.O. Box 7428
E. Rutherford, NJ 07073
(201) 935-4300
Fax: (201) 935-6997

ECOLAB INC., TEXTILE CARE DIVISION

Ecolab Center
370 N. Wabasha
St. Paul, MN 55102
(800) 553-8683
Fax: (651) 225-3185
www.ecolab.com

NORCHEM CORP.

5649 Alhambra Ave.
Los Angeles, CA 90003
(323) 221-0221
(800) 442-4360
Fax: (323) 227-8733
www.norchemcorp.com
norchemcorp@norchemcorp.com

DOBER GROUP

14461 S. Waverly
Midlothian, IL 60445
(708) 388-7700
Fax: (708) 388-9344

GURTLER CHEMICALS, INC.

15475 South LaSalle St.
South Holland, IL 60473
(800) 638-7300
(708) 331-2550
Fax: (708) 331-9087
www.gurtler.com

WASHING SYSTEMS, INC.

1865 Summit Road
Cincinnati, OH 45237
(513) 821-8333
Fax: (513) 679-6283
www.washingsystems.com
sales@washingsystems.com



WESTEX CLEANING & MAINTENANCE GUIDE

APPENDIX II

Generalized Wash Procedure* for Ultrasoft, Ultrasoft AC and Indura Garments

OPERATION	WATER LEVEL	WATER TEMP	TIME (MIN)	SUPPLIES**
Flush	High	140–165° F (60–75° C)	3	
Break***	Low	140–165° F (60–75° C)	10-20	2.5–3 lbs (1.1–1.4 kg) Detergent****
Carry over	Low	140–165° F (60–75° C)	3-5	
Suds	Low	140–165° F (60–75° C)	5-7	1.25–1.5 lbs (0.5–0.7 kg) Detergent*****
Rinse	High	140–165° F (60–75° C)	2	
Rinse	High	135° F (57° C)	2	
Rinse	High	120° F (49° C)	2	
Rinse	High	105° F (41° C)	2	
Sour Ammonium	Low	100° F (38° C)	5	1–4 oz Silicofluoride or Sodium Silicofluoride

* Load size 65%–80% of capacity

** Consult chemical suppliers (Appendix I) for acceptable supplies for flame resistant garments. Supply quantities stated for 100 lb (45 kg) of garments

*** Best results are obtained with softened water. When softened water is not available, we recommend against the use of silicate supplemented detergents

**** Where possible, the use of a detergent with a phosphate builder has proved beneficial for laundering Westex flame resistant fabrics.

APPENDIX III

Common Detergents Available in Stores

THE FOLLOWING PRODUCTS ARE ACCEPTABLE FOR USE WITH WESTEX GARMENTS:

DETERGENTS	SPOT CLEANERS
All	Shout
Arm & Hammer	Spray & Wash
Cheer	Zout
Era	
Gain	
Purex (powder & tablets)	
Select Ultra	
Surf	
Tide, Tide w/ Bleach Alternative (powder, liquid & tablets)	
Wisk	

Note: Best cleaning results are obtained with soft water.

Note: This is not a complete list of all detergents that are acceptable for use with Westex garments. Additional brands are acceptable provided they do not contain chlorine bleach or hydrogen peroxide.



APPENDIX IV

Do Not Use These Products with Ultrasoft, Ultrasoft AC and Indura Garments

TIDE WITH BLEACH (LIQUID)

CHLOROX II (LIQUID)

VIVID (LIQUID)

Note: These products contain either chlorine bleach or hydrogen peroxide. This list is not a complete list of all products containing either chlorine bleach or hydrogen peroxide. Therefore, it is important to check the ingredients of all products before using with Westex garments.

APPENDIX V

Additional Information on the Effect of Water Hardness

WATER HARDNESS

Calcium and magnesium are the primary minerals that contribute to water hardness. The greater the concentration of these minerals, the harder the water. Hard water does not clean as effectively as soft water. Hardness is measured in grains per gallon (gpg) or parts per million (ppm). Water containing less than 35 3.5 gpg is considered soft, whereas water with more than 7 gpg is considered hard. (See Table 1 for the American Society of Engineers' water hardness classifications.)

Hard water affects laundering in several ways. Incomplete soil removal is common in hard water. As unremoved soil deposits accumulate, fabrics feel harsh and stiff.

There are three ways to help control water hardness when doing the laundry:

- Use adequate amounts of an appropriate detergent.
- Use water as hot as recommended for the fabric.
- Install a water-softening unit in your home.

Water Hardness Classification

	GRAINS PER GALLON	PARTS PER MILLION
SOFT	0 to 3.5	0 to 60
MODERATE	3.6 to 7.6	61 to 120
HARD	7.1 to 10.5	121 to 180
VERY HARD	more than 10.5	more than 180

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FIREZERO CLEANING & MAINTENANCE GUIDE



NFPA® 2112 - TESTING & COMPLIANCE



Product testing and facility audits are performed by a 3rd party certifier as required by NFPA® 2112. Manufacturers cannot do their own testing or simply state that they

use “recognized components” in assembling their garments. FireZero has chosen the industry leader, Underwriters Laboratories (UL®) to be our 3rd party certifier.

FABRICS & GARMENTS

Important Information regarding flame-resistant garments certified to NFPA 2112 - 2018 Standard on Flame-Resistant Clothing for Protection of Industrial Personnel against Short-Duration Thermal Exposures from Fire and ASTM F1506 Standard Performance Specification for Flame Resistant and Electric Arc Rated Protective Clothing Worn by Workers Exposed to Flames and Electric Arcs.

USER INFORMATION

WARNING – Read this User Guide carefully. All of the instructions contained in it are intended to warn you of potential risks of serious injury and death and to reduce such risks. If they are not followed, the risk of serious injury or death will increase. It is your responsibility to familiarize yourself with this User Guide and to use your garments in accordance with its instructions.

INTRODUCTION

This User Guide gives important information regarding the use, care, and maintenance of your FireZero flame resistant garment. Upon receipt and inspection of the garment, you should thoroughly read this User Guide and refer to it as needed for continued safe use of your garment.

THE PURCHASER HAS 10 DAYS AFTER RECEIPT OF GARMENT TO SUBMIT A CLAIM RELATING TO ANY MANUFACTURING DEFECTS, SHORTAGES, OR DAMAGE DUE TO SHIPPING; AFTER TEN DAYS NO CLAIM WILL BE ACCEPTED.

WARNINGS

This garment is intended to provide limited protection to you in the event of exposure during a flash fire or electric arc incident.

This garment will not protect against any extended exposure to direct flame or high heat and is not intended for use in firefighting or other emergency operations, including wildland firefighting, technical rescue, or structural firefighting. These garments are not intended to protect the wearer from exposure to chemicals, radiological agents, biological agents, or other hazardous materials.

This garment alone will not protect from all potential hazards. You or your employer must conduct a hazard and risk assessment in accordance with local laws and industry standards to determine the suitability of this garment for its intended purpose. Additional garments or personal protective equipment may be necessary to provide you complete protection. This may include, but is not limited to: head protection, eye/face protection, hand protection, foot protection,

respirators, hearing protection, fall protection, high visibility apparel, and other protective garments.

The protective properties of this garment may be reduced or eliminated if not properly maintained. Do not use this garment if it is soiled, contaminated, or damaged. Soiling and contamination of this garment may render this garment hazardous. Clean this garment in accordance with the instructions provided in this user information below. If you have any doubt about the condition of this garment, do not wear it. Have the garment replaced.

You must be trained in recognizing hazards in your specific trade and understand the limitations of use for this garment prior to wearing it. Even though the garment is constructed of flame-resistant materials, this garment will not protect you from being burned under all conditions of use or exposure to hazards. Failure to understand these limitations may result in a serious injury or death.



GARMENT FIT & SIZE

Choose a flame-resistant garment size that properly fits your body. The garment should not be too tight or too loose, should not restrict your movement and should

be comfortable to wear. The recommended body dimensions for each size of FireZero garments are provided in the tables below.

	XS	S	M	L	XL	2XL	3XL	4XL	5XL
CHEST	30-32	34-36	38-40	42-44	46-48	50-52	30-32	58-60	62-64
WAIST	24-26	28-30	32-34	36-38	40-42	24-26	44-46	52-54	56-58

Regular = 5'8 - 6.0', Tall = 6'1 - 6'3, Tall sizes have 2" added to body and sleeve length. Inseam Length Available in: 30", 32", 34", 36"

GARMENT MARKINGS AND EMBLEMS

The use of flammable logos, name tags and other heraldry should be minimized. If used, the size of these items should be reduced as much as possible as flammable additions to the garment may compromise the garment in the event of a flash fire or electric arc exposure.

For any marking of these garments, it is recommended that identification be provided on the interior of the garment. For hand written markings, an industrial laundry marker may be used.

INSPECTION AND REPAIR

Periodically inspect your garment as follows:

A. Inspect your garment upon receipt, at least once a month, before and after each use, cleaning and/or following any application where the garment has been subjected to damage or contamination. In the event of exposure to hazardous materials, isolate the garment and perform the inspection only after the garment has been decontaminated.

B. Inspect all components for rips, tears, burn damage, and abrasion damage. Close attention should be paid to integrity of the thread and areas of wear at the shoulders, elbows, cuffs, crotch, and knees.

C. Physically inspect all major seams (e.g., shirt side seams, sleeve seams, shoulder seams, and trouser seat seams, outseams, inseams, etc.) for holes or other structural damage.

D. If any component is found to be damaged or missing, remove the clothing from service and have it repaired or replaced.

E. Inspect each article of clothing for the following types of wear or damage:

- Rips, tears, holes
- Brittle/stiff material

- Discoloration
- Charring
- Cleanliness
- Other fabric damage
- Damage to pockets
- Seam integrity
- Hardware function
- Closure operation
- Size and fit

Before any repairs are made to your garment, clean your garment in accordance with the instructions provided below.

All repairs to PhenixFR flame-resistant garments should be made using like fabrics and findings. This includes but is not limited to using fabrics that have meet the same FR/AR standards as the garment fabric, and flame-resistant thread.

If you have purchased your coverall from a distributor with whom you have a repair agreement, contact your distributor directly for repairs.

Unauthorized repairs made to PhenixFR garments invalidates all expressed or implied warranties and may increase your risk of injury.

FIREZERO CLEANING & MAINTENANCE GUIDE

STORAGE

After the garment has been cleaned and inspected, store your garments in a place that will protect them from direct sunlight heat and excessive moisture. Never store your garments in direct sunlight, as this condition may cause permanent damage. Exposure to ultraviolet light will cause the garment to lose

tensile strength. Once damaged, there is no way to repair this type of deterioration. Store garments in a dry area. Wet garments may promote the growth of mildew and fungus, which will permanently damage your garments.

CLEANING REQUIREMENTS

A. Dry cleaning is not recommended. Solvents may damage your garment

B. Never use chlorine bleach on FireZero garments. Chlorine bleach may discolor the fabrics, and cause garment materials to lose their performance characteristics, such as flame resistance, strength, etc.

C. Do not use fabric softeners. Fabric softeners are oil based and can contribute to fabric flammability.

D. Do not use automatic dryers if you have reflective trim on your garment. Automatic dryers can damage the reflective trim, which may impact its visibility performance. Hot drying temperatures or extended drying time will also cause greater material shrinkage.

E. Do not use hot water (120°F / 49°C). Overly hot water may cause excessive material shrinkage.

F. Keep protective garments clean. The garment's life expectancy and flame resistance increases if abrasive, flammable dirt and contaminants are removed after each use. Garments contaminated with unburned byproducts of combustion, as well as other flammable contaminants, may compromise or negate the ability of clothing to resist flame, and may not only ignite, but the garment may also continue to burn when it would normally self-extinguish.

HOME WASHING INSTRUCTIONS

A. Turn FireZero garments inside-out and wash separately from other clothing. The use of home-based washers and washers used by the public are not recommended in order to prevent the spread of contamination to other laundry items.

B. These instructions can be applied to washing a number of clothing items in the same load. The load size will depend on the machine type and its capacity. Most machines indicate that the load should be no more than 75 to 80% of the machine capacity. For example, a typical home style machine can accommodate up to 12 shirts, 4 pants, 3 sets of pants and shirts, or 5 lightweight jackets.

C. While the washing machine is filling up with warm water (temperature at 86°F ± 5°F or 40°C ± 3°C), add liquid or powder laundry detergent (without chlorine or peroxides) to the machine.

D. Fill the washing machine water to the highest level.

E. Add garments to be washed.

F. Set washing machine to "normal cycle" or similar setting and double rinse.

G. If garments are laundered at outside laundering facilities, the same procedures must be followed to avoid damaging the garments.

HOME DRYING INSTRUCTIONS

A. Select a dryer that has multiple heat settings.

B. Place washed garments inside dryer and use a low heat setting.

C. Do not use fabric softener.

D. Remove garments promptly at the end of the drying cycle; do not over dry as excessive heating of clothing can cause premature shrinkage.



INDUSTRIAL WASHING / CLEANING SERVICES

If outside organizations are used to clean your flame-resistant garments, ensure that the washing and drying procedures are effective in removing soils and other contaminants while not adversely affecting the condition and performance of your garments. These services should use some form of traceability for determining how many times your flame-resistant garment has been cleaned.

Garments contaminated from hazardous or caustic materials, such as solvents, liquids, dusts, mists, fumes, and vapors, must be immediately removed from service and retired as directed below in "Retirement and Disposal".

Unless it can be demonstrated by a qualified, competent authority that the garments can be properly decontaminated and are safe for reuse, your garments must be retired.

Do not use any decontamination agent or process unless it has been adequately demonstrated that its use will not damage your garments.

WARRANTY

FireZero warrants its flame-resistant garments to be free from workmanship and material defects for the useful life of the products when the garments' warning, use, and care instructions are followed.

For purposes of this warranty, "workmanship and material defects" is defined as defects arising from the manufacturing process, including loose or broken seams, malfunctioning hardware, and flawed fabrics. Defects do not encompass the results of ordinary wear and tear. In addition, "useful life" for purposes of this warranty, is defined as no more than two years, but may be shorter depending upon the type and frequency of use of the garment. Nonetheless, it is the responsibility of the user and the applicable department or agency to establish its own guidelines and standards for assessing and determining the useful life of its apparel and equipment.

Excluded from coverage under this warranty are the following:

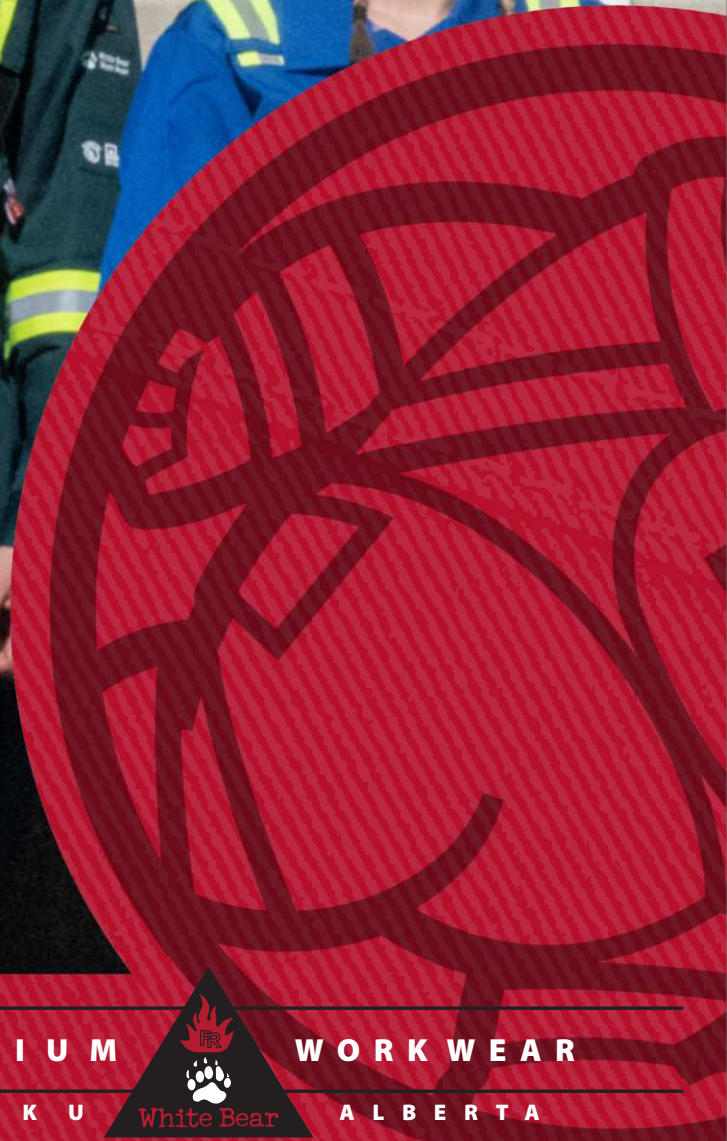
- Damage resulting from abuse, misuse, or improper care;
- Damage resulting from extended wear and tear;
- Damage resulting from a customer modification; and
- Consequential, incidental, and/or indirect damages.

This warranty is the exclusive warranty provided by FireZero relating to the product and, to the maximum extent permitted by law, FireZero disclaims all other express or implied warranties, including without limitation warranties of merchantability and/or fitness for a particular purpose.

Email or call to file a warranty claim and obtain an RMA#.



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